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 NEWS  1          Web Page for STN Seminar Schedule - N. America
 NEWS  2  NOV 21  CAS patent coverage to include exemplified prophetic
                  substances identified in English-, French-, German-,
                  and Japanese-language basic patents from 2004-present
 NEWS  3  NOV 26  MARPAT enhanced with FSORT command
 NEWS  4  NOV 26  CHEMSAFE now available on STN Easy
 NEWS  5  NOV 26  Two new SET commands increase convenience of STN
                  searching
 NEWS  6  DEC 01  ChemPort single article sales feature unavailable
 NEWS  7  DEC 12  GBFULL now offers single source for full-text
                  coverage of complete UK patent families
 NEWS  8  DEC 17  Fifty-one pharmaceutical ingredients added to PS
 NEWS  9  JAN 06  The retention policy for unread STNmail messages
                  will change in 2009 for STN-Columbus and STN-Tokyo
 NEWS 10  JAN 07  WPIDS, WPINDEX, and WPIX enhanced Japanese Patent
                  Classification Data
 NEWS 11  FEB 02  Simultaneous left and right truncation (SLART) added
                  for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
 NEWS 12  FEB 02  GENBANK enhanced with SET PLURALS and SET SPELLING
 NEWS 13  FEB 06  Patent sequence location (PSL) data added to USGENE
 NEWS 14  FEB 10  COMPENDEX reloaded and enhanced
 NEWS 15  FEB 11  WTEXTILES reloaded and enhanced
 NEWS 16  FEB 19  New patent-examiner citations in 300,000 CA/CAplus
                  patent records provide insights into related prior
                  art
 NEWS 17  FEB 19  Increase the precision of your patent queries -- use
                  terms from the IPC Thesaurus, Version 2009.01
 NEWS 18  FEB 23  Several formats for image display and print options
                  discontinued in USPATFULL and USPAT2
 NEWS 19  FEB 23  MEDLINE now offers more precise author group fields
                  and 2009 MeSH terms
 NEWS 20  FEB 23  TOXCENTER updates mirror those of MEDLINE - more
                  precise author group fields and 2009 MeSH terms
 NEWS 21  FEB 23  Three million new patent records blast AEROSPACE into
                  STN patent clusters

 NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
specific topic.
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FILE 'HOME' ENTERED AT 11:13:13 ON 24 FEB 2009

=> FIL REGISTRY
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.22       0.22

FILE 'REGISTRY' ENTERED AT 11:13:31 ON 24 FEB 2009
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STRUCTURE FILE UPDATES:   22 FEB 2009  HIGHEST RN 1110296-20-2
DICTIONARY FILE UPDATES:  22 FEB 2009  HIGHEST RN 1110296-20-2

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> E "CYCLOPAMINE"/CN 25
E1           1     CYCLOPALDIC ACID/CN
E2           1     CYCLOPAM/CN
E3           1 --> CYCLOPAMINE/CN
E4           1     CYCLOPAMINE B-D-GLUCOPYRANOSIDE/CN
E5           1     CYCLOPAN/CN
E6           1     CYCLOPAPILOSINE D/CN
E7           1     CYCLOPAR/CN
E8           2     CYCLOPARAFFINS/CN
E9           1     CYCLOPARVIFLORALONE/CN
E10          1     CYCLOPARVIFLOROLIDE/CN
E11          1     CYCLOPASSIFLOIC ACID A/CN
E12          1     CYCLOPASSIFLOIC ACID A METHYL ESTER/CN
E13          1     CYCLOPASSIFLOIC ACID B/CN
E14          1     CYCLOPASSIFLOIC ACID C/CN
E15          1     CYCLOPASSIFLOIC ACID D/CN
E16          1     CYCLOPASSIFLOIC ACID E/CN
E17          1     CYCLOPASSIFLOIC ACID F/CN
E18          1     CYCLOPASSIFLOIC ACID G/CN
E19          1     CYCLOPASSIFLOSIDE I/CN
E20          1     CYCLOPASSIFLOSIDE II/CN
E21          1     CYCLOPASSIFLOSIDE III/CN
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E22          1     CYCLOPASSIFLOSIDE IV/CN
E23          1     CYCLOPASSIFLOSIDE IX/CN
E24          1     CYCLOPASSIFLOSIDE V/CN
E25          1     CYCLOPASSIFLOSIDE VI/CN

=> S E3
L1           1 CYCLOPAMINE/CN

=> DIS L1 1 SQIDE

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
RN   4449-51-8  REGISTRY
CN   Spiro[9H-benzo[a]fluorene-9,2'(3'H)-furo[3,2-b]pyridin]-3-ol,
     1,2,3,3'a,4,4',5',6,6',6a,6b,7,7',7'a,8,11,11a,11b-octadecahydro-
     3',6',10,11b-tetramethyl-, (2'R,3S,3'R,3'aS,6'S,6aS,6bS,7'aR,11aS,11bR)-
     (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Cyclopamine (8CI)
CN   Jervine, 11-deoxo- (7CI)
CN   Veratraman-3-ol, 17,23-epoxy-, (3β,23β)-
OTHER NAMES:
CN   11-Deoxojervine
CN   11-Deoxyjervine
FS   STEREOSEARCH
DR   11051-96-0, 26108-61-2
MF   C27 H41 N O2
CI   COM
LC   STN Files:   AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAPLUS,
       CASREACT, CHEMCATS, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB*, IPA,
       MEDLINE, NAPRALERT, RTECS*, TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
DT.CA  CAplus document type:  Conference; Dissertation; Journal; Patent
RL.P   Roles from patents:  ANST (Analytical study); BIOL (Biological study);
       OCCU (Occurrence); PREP (Preparation); RACT (Reactant or reagent); USES
       (Uses)
RLD.P  Roles for non-specific derivatives from patents:  BIOL (Biological
       study); USES (Uses)
RL.NP  Roles from non-patents:  ANST (Analytical study); BIOL (Biological
       study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP
       (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in
       record)
RLD.NP Roles for non-specific derivatives from non-patents:  BIOL (Biological
       study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.
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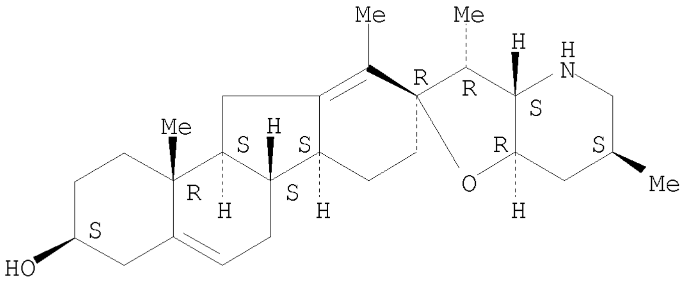

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

             179 REFERENCES IN FILE CA (1907 TO DATE)
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               4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             179 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> file medline caplus wpids uspatfull
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     7.88       8.10

FILE 'MEDLINE' ENTERED AT 11:14:09 ON 24 FEB 2009

FILE 'CAPLUS' ENTERED AT 11:14:09 ON 24 FEB 2009
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FILE 'USPATFULL' ENTERED AT 11:14:09 ON 24 FEB 2009
CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

=> s l1
L2         450 L1

=> s l2 and psoriasis
L3          40 L2 AND PSORIASIS

=> s l3 and (prd<20010702 or pd<20010702)
'20010702' NOT A VALID FIELD CODE
   1 FILES SEARCHED...
   3 FILES SEARCHED...
L4          22 L3 AND (PRD<20010702 OR PD<20010702)

=> dup rem l4
PROCESSING COMPLETED FOR L4
L5           21 DUP REM L4 (1 DUPLICATE REMOVED)

=> d l5 1-21 ibib, abs

L5   ANSWER 1 OF 21  USPATFULL on STN
ACCESSION NUMBER:        2008:291025  USPATFULL
TITLE:                   Regulators of the hedgehog pathway, compositions and
                         uses related thereto
INVENTOR(S):             Beachy, Philip A., Ruxton, MD, UNITED STATES
                         Chen, James K., Baltimore, MD, UNITED STATES
                         Taipale, Anssi Jussi Nikolai, Espoo, FINLAND
PATENT ASSIGNEE(S):      The Johns Hopkins University, Baltimore, MD, UNITED
                         STATES (U.S. corporation)

                              NUMBER       KIND    DATE
                         ---------------- ------ --------
PATENT INFORMATION:      US 20080255059     A1   20081016
APPLICATION INFO.:       US 2008-79776      A1   20080328  (12)
RELATED APPLN. INFO.:    Continuation of Ser. No. US 2006-338503, filed on 23
                         Jan 2006, PENDING Continuation of Ser. No. US
                         2000-688076, filed on 13 Oct 2000, Pat. No. US 7098196

                                NUMBER        DATE
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PRIORITY INFORMATION:    US 1999-159215P    19991013 (60)            <--
                         US 2000-229273P    20000830 (60)            <--
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DOCUMENT TYPE:          Utility
FILE SEGMENT:           APPLICATION
LEGAL REPRESENTATIVE:   ROPES & GRAY LLP, PATENT DOCKETING 39/41, ONE
                        INTERNATIONAL PLACE, BOSTON, MA, 02110-2624, US
NUMBER OF CLAIMS:       28
EXEMPLARY CLAIM:        1-42
NUMBER OF DRAWINGS:     12 Drawing Page(s)
LINE COUNT:             4652
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB       The present invention makes available, inter alia, methods and reagents
       for modulating smoothened-dependent pathway activation. In certain
       embodiments, the subject methods can be used to counteract the
       phenotypic effects of unwanted activation of a hedgehog pathway, such as
       resulting from hedgehog gain-of-function, ptc loss-of-function or
       smoothened gain-of-function mutations.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 2 OF 21  USPATFULL on STN
ACCESSION NUMBER:       2008:66378  USPATFULL
TITLE:                  Inhibitors of hedgehog signaling pathways, compositions
                        and uses related thereto
INVENTOR(S):            Beachy, Philip A., Ruxton, MD, UNITED STATES
                        Cooper, Michael K., Baltimore, MD, UNITED STATES
                        Porter, Jeffrey A., Belmont, MA, UNITED STATES

                             NUMBER       KIND    DATE
                        ---------------- ------ --------
PATENT INFORMATION:     US 20080058298     A1   20080306
APPLICATION INFO.:      US 2007-894712     A1   20070820  (11)
RELATED APPLN. INFO.:   Continuation of Ser. No. US 2000-708964, filed on 8 Nov
                        2000, GRANTED, Pat. No. US 7291626 Continuation of Ser.
                        No. US 2000-685244, filed on 10 Oct 2000, ABANDONED
                        Continuation-in-part of Ser. No. WO 1999-US7811, filed
                        on 9 Apr 1999, PENDING Continuation-in-part of Ser. No.
                        US 1998-90622, filed on 4 Jun 1998, GRANTED, Pat. No.
                        US 6432970

                               NUMBER        DATE
                        ------------------ --------
PRIORITY INFORMATION:   US 1998-81186P     19980409 (60)            <--
                        US 1998-81263P     19980409 (60)            <--
DOCUMENT TYPE:          Utility
FILE SEGMENT:           APPLICATION
LEGAL REPRESENTATIVE:   ROPES & GRAY LLP, PATENT DOCKETING 39/41, ONE
                        INTERNATIONAL PLACE, BOSTON, MA, 02110-2624, US
NUMBER OF CLAIMS:       26
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     16 Drawing Page(s)
LINE COUNT:             4308
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB       The present invention makes available assays and reagents inhibiting
       paracrine and/or autocrine signals produced by a hedgehog protein or
       aberrant activation of a hedgehog signal transduction pathway, e.g.,
       which involve the use of a steroidal alkaloid or other small molecule.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 3 OF 21  USPATFULL on STN
ACCESSION NUMBER:       2007:11122  USPATFULL
TITLE:                  Methods and compositions for inhibiting tumorigenesis
INVENTOR(S):            Altaba, Ariel Ruiz i, UNITED STATES
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                        Stecca, Barbara, Geneva, SWITZERLAND

                             NUMBER        KIND    DATE
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PATENT INFORMATION:     US 20070009530     A1   20070111
APPLICATION INFO.:      US 2006-407702     A1   20060420  (11)
RELATED APPLN. INFO.:   Continuation-in-part of Ser. No. US 2004-930723, filed
                        on 31 Aug 2004, PENDING Continuation-in-part of Ser.
                        No. US 2004-927951, filed on 29 Aug 2004, PENDING
                        Continuation-in-part of Ser. No. US 2003-456954, filed
                        on 6 Jun 2003, PENDING Continuation-in-part of Ser. No.
                        US 2001-825155, filed on 3 Apr 2001, ABANDONED
                        Continuation of Ser. No. US 1998-102491, filed on 22
                        Jun 1998, GRANTED, Pat. No. US 6238876
                        Continuation-in-part of Ser. No. US 2003-414267, filed
                        on 15 Apr 2003, ABANDONED Continuation-in-part of Ser.
                        No. US 2003-456954, filed on 6 Jun 2003, PENDING
                        Continuation-in-part of Ser. No. US 2001-825155, filed
                        on 3 Apr 2001, ABANDONED Continuation of Ser. No. US
                        1998-102491, filed on 22 Jun 1998, GRANTED, Pat. No. US
                        6238876 Continuation-in-part of Ser. No. US
                        2003-414267, filed on 15 Apr 2003, ABANDONED

                               NUMBER        DATE
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PRIORITY INFORMATION:   US 1997-50286P     19970620 (60)            <--
                        US 2002-372508P    20020415 (60)
                        US 1997-50286P     19970620 (60)            <--
                        US 2002-372508P    20020415 (60)
DOCUMENT TYPE:          Utility
FILE SEGMENT:           APPLICATION
LEGAL REPRESENTATIVE:   KLAUBER & JACKSON, 411 HACKENSACK AVENUE, HACKENSACK,
                        NJ, 07601, US
NUMBER OF CLAIMS:       59
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     32 Drawing Page(s)
LINE COUNT:             8338
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB       The present invention relates to compounds, small interfering RNAs and
         compositions and methods of inhibiting tumorigenesis and methods of
         inhibiting tumor cell growth and proliferation using agents that inhibit
         the hedgehog and Gli signaling pathway, including agents that inhibit
         GLI synthesis and/or function. The present invention also relates to
         particular biomarkers that can be used in the diagnosis and prognosis of
         melanomas. Methods of treating cancer, including melanoma are also
         provided using small organic compounds, siRNAs and blocking antibodies
         that inhibit or block the SHH/GLI pathway. In addition, the use of
         agents that inhibit other signaling pathways is contemplated for use as
         second agents to be used in conjunction with the inhibitors of the GLI
         pathway.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 4 OF 21  USPATFULL on STN
ACCESSION NUMBER:       2007:293152  USPATFULL
TITLE:                  Inhibitors of hedgehog signaling pathways, compositions
                        and uses related thereto
INVENTOR(S):            Beachy, Philip A., Ruxton, MD, UNITED STATES
                        Cooper, Michael K., Baltimore, MD, UNITED STATES
                        Porter, Jeffrey A., Belmont, MA, UNITED STATES
PATENT ASSIGNEE(S):     John Hopkins University School of Medicine, Baltimore,
                        MD, UNITED STATES (U.S. corporation)
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                            NUMBER       KIND    DATE
                       ---------------- ------ --------
PATENT INFORMATION:     US 7291626        B1   20071106
APPLICATION INFO.:      US 2000-708964         20001108  (9)
RELATED APPLN. INFO.:   Continuation of Ser. No. US 2000-685244, filed on 10
                        Oct 2000, ABANDONED Continuation-in-part of Ser. No. WO
                        1999-US7811, filed on 9 Apr 1999, PENDING

                              NUMBER        DATE
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PRIORITY INFORMATION:   US 1998-81186P     19980409 (60)            <--
                        US 1998-81263P     19980409 (60)            <--
DOCUMENT TYPE:          Utility
FILE SEGMENT:           GRANTED
PRIMARY EXAMINER:       Badio, Barbara P.
LEGAL REPRESENTATIVE:   Ropes & Gray LLP
NUMBER OF CLAIMS:       17
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     72 Drawing Figure(s); 20 Drawing Page(s)
LINE COUNT:             4317
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB     The present invention makes availables assays and reagents inhibiting
       paracrine and/or autocrine signals produced by a hedgehog protein or
       aberrant activation of a hedgehog signal transduction pathway, e.g.,
       which involve the use of a steroidal alkaloid or other small molecule.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 5 OF 21  USPATFULL on STN
ACCESSION NUMBER:       2006:167734  USPATFULL
TITLE:                  Inhibitors of hedgehog signaling pathways, compositions
                        and uses related thereto
INVENTOR(S):            Beachy, Philip A., Ruxton, MD, UNITED STATES
                        Cooper, Michael K., Baltimore, MD, UNITED STATES
                        Porter, Jeffery A., Lexington, MA, UNITED STATES
PATENT ASSIGNEE(S):     John Hopkins University School of Medicine, Baltimore,
                        MD, UNITED STATES (U.S. corporation)

                            NUMBER       KIND    DATE
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PATENT INFORMATION:     US 20060142245    A1   20060629
APPLICATION INFO.:      US 2005-270984    A1   20051111  (11)
RELATED APPLN. INFO.:   Division of Ser. No. US 2000-708964, filed on 8 Nov
                        2000, PENDING Continuation of Ser. No. US 2000-685244,
                        filed on 10 Oct 2000, ABANDONED Continuation-in-part of
                        Ser. No. WO 1999-US7811, filed on 9 Apr 1999, PENDING
                        Continuation-in-part of Ser. No. US 1998-90622, filed
                        on 4 Jun 1998, GRANTED, Pat. No. US 6432970

                              NUMBER        DATE
                       ------------------ --------
PRIORITY INFORMATION:   US 1998-81186P     19980409 (60)            <--
                        US 1998-81263P     19980409 (60)            <--
DOCUMENT TYPE:          Utility
FILE SEGMENT:           APPLICATION
LEGAL REPRESENTATIVE:   FISH & NEAVE IP GROUP, ROPES & GRAY LLP, ONE
                        INTERNATIONAL PLACE, BOSTON, MA, 02110-2624, US
NUMBER OF CLAIMS:       17
EXEMPLARY CLAIM:        1-26
NUMBER OF DRAWINGS:     20 Drawing Page(s)
LINE COUNT:             4331
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB      The present invention makes availables assays and reagents inhibiting
        paracrine and/or autocrine signals produced by a hedgehog protein or
        aberrant activation of a hedgehog signal transduction pathway, e.g.,
        which involve the use of a steroidal alkaloid or other small molecule.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 6 OF 21  USPATFULL on STN
ACCESSION NUMBER:        2006:152198  USPATFULL
TITLE:                   Regulators of the hedgehog pathway, compositions and
                         uses related thereto
INVENTOR(S):             Beachy, Philip A., Ruxton, MD, UNITED STATES
PATENT ASSIGNEE(S):      John Hopkins University School of Medicine, Baltimore,
                         MD, UNITED STATES (U.S. corporation)

                              NUMBER       KIND    DATE
                         ---------------- ------ --------
PATENT INFORMATION:      US 20060128639     A1   20060615
                         US 7476661         B2   20090113
APPLICATION INFO.:       US 2006-338503     A1   20060123  (11)
RELATED APPLN. INFO.:    Continuation of Ser. No. US 2000-688076, filed on 13
                         Oct 2000, PENDING

                                NUMBER        DATE
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PRIORITY INFORMATION:    US 1999-159215P    19991013 (60)            <--
                         US 2000-229273P    20000830 (60)            <--
DOCUMENT TYPE:           Utility
FILE SEGMENT:            APPLICATION
LEGAL REPRESENTATIVE:    FISH & NEAVE IP GROUP, ROPES & GRAY LLP, ONE
                         INTERNATIONAL PLACE, BOSTON, MA, 02110-2624, US
NUMBER OF CLAIMS:        34
EXEMPLARY CLAIM:         1-42
NUMBER OF DRAWINGS:      12 Drawing Page(s)
LINE COUNT:              5117
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB      The present invention makes available, inter alia, methods and reagents
        for modulating smoothened-dependent pathway activation. In certain
        embodiments, the subject methods can be used to counteract the
        phenotypic effects of unwanted activation of a hedgehog pathway, such as
        resulting from hedgehog gain-of-function, ptc loss-of-function or
        smoothened gain-of-function mutations.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 7 OF 21  USPATFULL on STN
ACCESSION NUMBER:        2006:22186  USPATFULL
TITLE:                   Regulators of the hedgehog pathway, compositions and
                         uses related thereto
INVENTOR(S):             Dudek, Henryk, Wellesley, MA, UNITED STATES
                         Ji, Benxiu, Sharon, MA, UNITED STATES
PATENT ASSIGNEE(S):      Curis, Inc., Cambridge, MA, UNITED STATES (U.S.
                         corporation)

                              NUMBER       KIND    DATE
                         ---------------- ------ --------
PATENT INFORMATION:      US 20060020020     A1   20060126
APPLICATION INFO.:       US 2005-230063     A1   20050919  (11)
RELATED APPLN. INFO.:    Continuation of Ser. No. US 2003-735116, filed on 12
                         Dec 2003, ABANDONED Continuation of Ser. No. US
                         2001-867311, filed on 29 May 2001, GRANTED, Pat. No. US
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                        6686388 Continuation of Ser. No. US 1999-417564, filed
                        on 14 Oct 1999, GRANTED, Pat. No. US 6291516

                               NUMBER        DATE
                        ------------------- --------
PRIORITY INFORMATION:   US 1999-115642P    19990113 (60)            <--
                        US 1999-119594P    19990210 (60)            <--
                        US 1999-142124P    19990702 (60)            <--
DOCUMENT TYPE:          Utility
FILE SEGMENT:           APPLICATION
LEGAL REPRESENTATIVE:   FISH & NEAVE IP GROUP, ROPES & GRAY LLP, ONE
                        INTERNATIONAL PLACE, BOSTON, MA, 02110-2624, US
NUMBER OF CLAIMS:       38
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     19 Drawing Page(s)
LINE COUNT:             3781
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB      The present invention makes available methods and reagents for
        inhibiting aberrant growth states resulting from hedgehog
        gain-of-function, ptc loss-of-function or smoothened gain-of-function
        comprising contacting a cell with a compound, such as a polypeptide or
        small molecule in an amount sufficient to control the aberrant growth
        state, e.g., to agonize a normal ptc pathway or antagonize smoothened or
        hedgehog activity. The present invention further makes available methods
        and reagents for ameliorating the consequences of hedgehog
        loss-of-function, ptc gain-of-function, or smoothened loss-of-function
        comprising contacting a cell with a compound, such as a polypeptide or
        small molecule, in an amount sufficient to ameliorate the In certain
        embodiments, the subject compounds, e.g., a cAMP analog, adenylate
        cyclase agonist, or cAMP phosphodiesterase inhibitor, regulate cAMP
        levels, which in turn modulates activity of the hedgehog pathway.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 8 OF 21  USPATFULL on STN
ACCESSION NUMBER:       2006:224351  USPATFULL
TITLE:                  Regulators of the hedgehog pathway, compositions and
                        uses related thereto
INVENTOR(S):            Beachy, Philip A., Ruxton, MD, UNITED STATES
                        Chen, James K., Baltimore, MD, UNITED STATES
                        Taipale, Anssi J., Baltimore, MD, UNITED STATES
PATENT ASSIGNEE(S):     Johns Hopkins University School of Medicine, Baltimore,
                        MD, UNITED STATES (U.S. corporation)

                            NUMBER       KIND    DATE
                        ---------------- ------ --------
PATENT INFORMATION:     US 7098196         B1   20060829
APPLICATION INFO.:      US 2000-688076          20001013  (9)

                               NUMBER        DATE
                        ------------------- --------
PRIORITY INFORMATION:   US 2000-229273P    20000830 (60)            <--
                        US 1999-159215P    19991013 (60)            <--
DOCUMENT TYPE:          Utility
FILE SEGMENT:           GRANTED
PRIMARY EXAMINER:       Lewis, Patrick
NUMBER OF CLAIMS:       15
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     16 Drawing Figure(s); 12 Drawing Page(s)
LINE COUNT:             4792
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB      The present invention makes available, inter alia, methods and reagents
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       for modulating smoothened-dependent pathway activation. In certain
       embodiments, the subject methods can be used to counteract the
       phenotypic effects of unwanted activation of a hedgehog pathway, such as
       resulting from hedgehog gain-of-function, ptc loss-of-function or
       smoothened gain-of-function mutations.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 9 OF 21  CAPLUS  COPYRIGHT 2009 ACS on STN DUPLICATE 1
ACCESSION NUMBER:        2005:220113  CAPLUS
DOCUMENT NUMBER:         142:291381
TITLE:                   Hedgehog protein as angiogenesis-modulator and
                         therapeutic uses thereof
INVENTOR(S):             Ling, Leona E.; Sanicola-Nadel, Michele; Kotkow,
                         Karen; Rubin, Lee L.
PATENT ASSIGNEE(S):      USA
SOURCE:                  U.S. Pat. Appl. Publ., 113 pp., Cont.-in-part of U.S.
                         Ser. No. 883,848.
                         CODEN: USXXCO
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  7
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     ---------------     ----   --------    --------------------   --------
     US 20050054568       A1    20050310    US 2003-652686         20030829 <--
     US 6552016           B1    20030422    US 2000-688018         20001013 <--
     US 20030022819       A1    20030130    US 2001-883848         20010618 <--
     US 20040023949       A1    20040205    US 2003-407551         20030404 <--
     US 7300929           B2    20071127
PRIORITY APPLN. INFO.:                      US 2000-211919P     P  20000616 <--
                                            US 2001-883848      A2 20010618 <--
                                            US 2002-407445P     P  20020829
                                            US 1999-159417P     P  19991014 <--
                                            US 2000-196543P     P  20000411 <--
                                            US 2000-240536P     P  20001013 <--
                                            US 2000-688018      A3 20001013 <--
OTHER SOURCE(S):         MARPAT 142:291381
AB   The present invention relates to the use of hedgehog protein, DNA, or
     other hedgehog therapeutic as an agent to induce the growth of new blood
     vessels, angiogenesis, arteriogenesis or vascular growth in adult tissues
     where the induction of angiogenesis has therapeutic value.  The present
     invention also relates to the use of inhibitors of hedgehog protein or
     signaling to prevent angiogenesis contributing to pathol. conditions such
     as neoplasia (tumors and gliomas), diabetic retinopathy, rheumatoid
     arthritis, osteoarthritis, macular degeneration, psoriasis,
     ulcerative colitis, Crohn's disease, and inflammation.  Hedgehog agonists
     and antagonists can be used to regulate angiogenesis, and have utility in
     treating tissue repair and cancer, and to prevent angiogenesis driven
     pathologies.

L5   ANSWER 10 OF 21  USPATFULL on STN
ACCESSION NUMBER:       2005:152008  USPATFULL
TITLE:                  Method and compositions for inhibiting tumorigenesis
INVENTOR(S):            Altaba, Ariel Ruiz i, New York, NY, UNITED STATES
                        Datta, Suma, Bryan, TX, UNITED STATES
                        Datta, Milton, Atlanta, GA, UNITED STATES

                             NUMBER       KIND    DATE
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PATENT INFORMATION:     US 20050130922     A1   20050616
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APPLICATION INFO.:       US 2004-927951     A1   20040829  (10)
RELATED APPLN. INFO.:    Continuation-in-part of Ser. No. US 2003-456954, filed
                         on 6 Jun 2003, PENDING Continuation-in-part of Ser. No.
                         US 2001-825155, filed on 3 Apr 2001, ABANDONED
                         Continuation of Ser. No. US 1998-102491, filed on 22
                         Jun 1998, GRANTED, Pat. No. US 6238876
                         Continuation-in-part of Ser. No. US 2003-414267, filed
                         on 15 Apr 2003, PENDING

                                NUMBER        DATE
                         ------------------ --------
PRIORITY INFORMATION:    US 1997-50286P     19970620 (60)            <--
                         US 2002-372508P    20020415 (60)
DOCUMENT TYPE:           Utility
FILE SEGMENT:            APPLICATION
LEGAL REPRESENTATIVE:    KLAUBER & JACKSON, 411 HACKENSACK AVENUE, HACKENSACK,
                         NJ, 07601, US
NUMBER OF CLAIMS:        82
EXEMPLARY CLAIM:         1
NUMBER OF DRAWINGS:      14 Drawing Page(s)
LINE COUNT:              6605
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB       The present invention relates to compounds, small interfering RNAs and
       compositions and methods of inhibiting tumorigenesis and methods of
       inhibiting tumor cell growth and proliferation using agents that inhibit
       the hedgehog and Gli signaling pathway, including agents that inhibit
       GLI synthesis and/or function. The present invention also relates to
       particular biomarkers that can be used in the diagnosis and prognosis of
       prostate cancer. Methods of treating cancer, including prostate cancer
       are also provided using small organic compounds, siRNAs and blocking
       antibodies that inhibit or block the SHH/GLI pathway.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 11 OF 21  USPATFULL on STN
ACCESSION NUMBER:        2005:131246  USPATFULL
TITLE:                   Method and compositions for inhibiting tumorigenesis
INVENTOR(S):             Altaba, Ariel Ruiz i, New York, NY, UNITED STATES
                         Sanchez, Pilar, Valencia, SPAIN
                         Rom, William, Rye, NY, UNITED STATES
                         Wong, Kam-Meng Tchou, New York, NY, UNITED STATES

                              NUMBER       KIND    DATE
                         ---------------- ------ --------
PATENT INFORMATION:      US 20050112707     A1   20050526
APPLICATION INFO.:       US 2004-930723     A1   20040831  (10)
RELATED APPLN. INFO.:    Continuation-in-part of Ser. No. US 2003-456954, filed
                         on 6 Jun 2003, PENDING Continuation-in-part of Ser. No.
                         US 2001-825155, filed on 3 Apr 2001, ABANDONED
                         Continuation of Ser. No. US 1998-102491, filed on 22
                         Jun 1998, GRANTED, Pat. No. US 6238876
                         Continuation-in-part of Ser. No. US 2003-414267, filed
                         on 15 Apr 2003, PENDING

                                NUMBER        DATE
                         ------------------ --------
PRIORITY INFORMATION:    US 1997-50286P     19970620 (60)            <--
                         US 2002-372508P    20020415 (60)
DOCUMENT TYPE:           Utility
FILE SEGMENT:            APPLICATION
LEGAL REPRESENTATIVE:    KLAUBER & JACKSON, 411 HACKENSACK AVENUE, HACKENSACK,
                         NJ, 07601, US
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NUMBER OF CLAIMS:       52
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     19 Drawing Page(s)
LINE COUNT:             6169
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB      The present invention relates to compounds, small interfering RNAs and
        compositions and methods of inhibiting tumorigenesis using agents that
        inhibit the sonic hedgehog and GLI signaling pathway, including agents
        that inhibit GLI expression, synthesis and/or function. The present
        invention also relates to particular biomarkers that can be used in the
        diagnosis and prognosis of cancer. Methods of treating cancer, including
        glioblastomas, medulloblastomas, basal cell carcinomas, prostate cancer
        and small cell and non-small cell lung cancer are also provided using
        small organic compounds, siRNAs and blocking antibodies that inhibit or
        block the SHH/GLI pathway.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 12 OF 21  USPATFULL on STN
ACCESSION NUMBER:       2005:65223  USPATFULL
TITLE:                  Inhibitors of hedgehog signal pathways, compositions
                        and uses related thereto
INVENTOR(S):            Beachy, Philip A., Ruxton, MD, United States
                        Cooper, Michael K., Baltimore, MD, United States
                        Porter, Jeffrey A., Belmont, MA, United States
PATENT ASSIGNEE(S):     Johns Hopkins University School of Medicine, Baltimore,
                        MD, United States (U.S. corporation)

                             NUMBER       KIND    DATE
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PATENT INFORMATION:     US 6867216         B1   20050315
APPLICATION INFO.:      US 2000-708974          20001108  (9)
RELATED APPLN. INFO.:   Continuation of Ser. No. US 2000-685244, filed on 10
                        Oct 2000, now abandoned Continuation-in-part of Ser.
                        No. WO 1999-US7811, filed on 9 Apr 1999
                        Continuation-in-part of Ser. No. US 1998-90622, filed
                        on 4 Jun 1998, now patented, Pat. No. US 6432970

                               NUMBER        DATE
                        ------------------- --------
PRIORITY INFORMATION:   US 1998-81263P     19980409 (60)            <--
                        US 1998-81186P     19980409 (60)            <--
DOCUMENT TYPE:          Utility
FILE SEGMENT:           GRANTED
PRIMARY EXAMINER:       Badio, Barbara P.
LEGAL REPRESENTATIVE:   Ropes & Gray, LLP
NUMBER OF CLAIMS:       11
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     53 Drawing Figure(s); 16 Drawing Page(s)
LINE COUNT:             4262
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB      The present invention makes availables assays and reagents inhibiting
        paracrine and/or autocrine signals produced by a hedgehog protein or
        aberrant activation of a hedgehog signal transduction pathway, e.g.,
        which involve the use of a steroidal alkaloid or other small molecule.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 13 OF 21  USPATFULL on STN
ACCESSION NUMBER:       2004:165984  USPATFULL
TITLE:                  Regulators of the hedgehog pathway, compositions and
                        uses related thereto
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INVENTOR(S):            Dudek, Henryk, Wellesley, MA, UNITED STATES
                        Ji, Benxiu, Sharon, MA, UNITED STATES
PATENT ASSIGNEE(S):     Curis, Inc., Cambridge, MA, UNITED STATES, 02138 (U.S.
                        corporation)

                             NUMBER       KIND    DATE
                        ---------------- ------ --------
PATENT INFORMATION:     US 20040127474     A1   20040701
APPLICATION INFO.:      US 2003-735116     A1   20031212  (10)
RELATED APPLN. INFO.:   Continuation of Ser. No. US 2001-867311, filed on 29
                        May 2001, GRANTED, Pat. No. US 6686388 Continuation of
                        Ser. No. US 1999-417564, filed on 14 Oct 1999, GRANTED,
                        Pat. No. US 6291516

                               NUMBER        DATE
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PRIORITY INFORMATION:   US 1999-115642P    19990113 (60)            <--
                        US 1999-142124P    19990702 (60)            <--
                        US 1999-119594P    19990210 (60)            <--
DOCUMENT TYPE:          Utility
FILE SEGMENT:           APPLICATION
LEGAL REPRESENTATIVE:   ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA,
                        02110-2624
NUMBER OF CLAIMS:       38
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     19 Drawing Page(s)
LINE COUNT:             3837
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB       The present invention makes available methods and reagents for
       inhibiting aberrant growth states resulting from hedgehog
       gain-of-function, ptc loss-of-function or smoothened gain-of-function
       comprising contacting a cell with a compound, such as a polypeptide or
       small molecule in an amount sufficient to control the aberrant growth
       state, e.g., to agonize a normal ptc pathway or antagonize smoothened or
       hedgehog activity. The present invention further makes available methods
       and reagents for ameliorating the consequences of hedgehog
       loss-of-function, ptc gain-of-function, or smoothened loss-of-function
       comprising contacting a cell with a compound, such as a polypeptide or
       small molecule, in an amount sufficient to ameliorate the In certain
       embodiments, the subject compounds, e.g., a cAMP analog, adenylate
       cyclase agonist, or cAMP phosphodiesterase inhibitor, regulate cAMP
       levels, which in turn modulates activity of the hedgehog pathway.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 14 OF 21  USPATFULL on STN
ACCESSION NUMBER:       2004:164874  USPATFULL
TITLE:                  Hedgehog
INVENTOR(S):            Lamb, Jonathan Robert, Edinburgh, UNITED KINGDOM
                        Hoyne, Gerard Francis, Canberra, AUSTRALIA
                        Dallman, Margaret Jane, London, UNITED KINGDOM
                        Champion, Brian Robert, Cambridge, UNITED KINGDOM

                             NUMBER       KIND    DATE
                        ---------------- ------ --------
PATENT INFORMATION:     US 20040126359     A1   20040701
APPLICATION INFO.:      US 2003-682230     A1   20031009  (10)
RELATED APPLN. INFO.:   Continuation-in-part of Ser. No. WO 2002-GB1666, filed
                        on 9 Apr 2002, UNKNOWN

                               NUMBER        DATE
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PRIORITY INFORMATION:   GB 2001-8873       20010409             <--
                        GB 2001-8872       20010409             <--
DOCUMENT TYPE:          Utility
FILE SEGMENT:           APPLICATION
LEGAL REPRESENTATIVE:   FROMMER LAWRENCE & HAUG, 745 FIFTH AVENUE- 10TH FL.,
                        NEW YORK, NY, 10151
NUMBER OF CLAIMS:       24
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     19 Drawing Page(s)
LINE COUNT:             4955
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB     Provided is a method of modulating T-cell activation, proliferation or
       apoptosis by contacting T-cells with a modulator of a Hedgehog
       signalling pathway or a modulator of a pathway which is a target of the
       Hedgehog signaling pathway.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 15 OF 21  USPATFULL on STN
ACCESSION NUMBER:       2004:144991  USPATFULL
TITLE:                  Hedgehog antagonists, methods and uses related thereto
INVENTOR(S):            Dudek, Henryk, Wellesley, MA, UNITED STATES
                        Karavanov, Irina, Bethesda, MD, UNITED STATES
                        Pepicelli, Carmen, Lowell, MA, UNITED STATES
                        Kotkow, Karen, Jamaica Plain, MA, UNITED STATES
                        Rubin, Lee L., Wellesley, MA, UNITED STATES

                             NUMBER       KIND    DATE
                        ---------------- ------ --------
PATENT INFORMATION:     US 20040110663     A1   20040610
APPLICATION INFO.:      US 2003-652298     A1   20030829  (10)
RELATED APPLN. INFO.:   Continuation-in-part of Ser. No. US 2001-977864, filed
                        on 15 Oct 2001, PENDING

                               NUMBER        DATE
                        ------------------ --------
PRIORITY INFORMATION:   US 2000-240564P    20001013 (60)            <--
                        US 2002-407145P    20020829 (60)
DOCUMENT TYPE:          Utility
FILE SEGMENT:           APPLICATION
LEGAL REPRESENTATIVE:   ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA,
                        02110-2624
NUMBER OF CLAIMS:       50
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     54 Drawing Page(s)
LINE COUNT:             7902
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB     The present application is directed to compositions and methods for
       inhibiting angiogenesis and treating or preventing unwanted cell
       proliferation, including tumors, by inhibiting the hedgehog pathway,
       e.g., with an antagonist of the hedgehog pathway such as those disclosed
       herein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 16 OF 21  USPATFULL on STN
ACCESSION NUMBER:       2004:80130  USPATFULL
TITLE:                  Hedgehog antagonists, methods and uses related thereto
INVENTOR(S):            Dudek, Henryk, Wellesley, MA, UNITED STATES
                        Karavanov, Irina, Bethesda, MD, UNITED STATES
                        Pepicelli, Carmen, Cambridge, MA, UNITED STATES
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                             NUMBER       KIND    DATE
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PATENT INFORMATION:     US 20040060568     A1   20040401
APPLICATION INFO.:      US 2001-977864     A1   20011015  (9)

                               NUMBER        DATE
                        ------------------ --------
PRIORITY INFORMATION:   US 2000-240564P    20001013 (60)            <--
DOCUMENT TYPE:          Utility
FILE SEGMENT:           APPLICATION
LEGAL REPRESENTATIVE:   ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA,
                        02110-2624
NUMBER OF CLAIMS:       22
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     38 Drawing Page(s)
LINE COUNT:             5652
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB     The present application is directed to compositions and methods for
       inhibiting angiogenesis and treating or preventing unwanted cell
       proliferation, including tumors, by inhibiting the hedgehog pathway,
       e.g., with an antagonist of the hedgehog pathway such as those disclosed
       herein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 17 OF 21  CAPLUS  COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:        2002:793447  CAPLUS
DOCUMENT NUMBER:         137:304813
TITLE:                   Modulators of hedgehog signaling pathway for treatment
                         of T-cell-mediated diseases
INVENTOR(S):             Lamb, Jonathan Robert; Hoyne, Gerard Francis; Dallman,
                         Margaret Jane; Champion, Brian Robert
PATENT ASSIGNEE(S):      Lorantis Limited, UK
SOURCE:                  PCT Int. Appl., 154 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
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     WO 2002080952        A2    20021017    WO 2002-GB1666         20020409 <--
     WO 2002080952        A3    20040108
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,
             GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA,
             GN, GQ, GW, ML, MR, NE, SN, TD, TG
     AU 2002247847        A1    20021021    AU 2002-247847         20020409 <--
     EP 1401469           A2    20040331    EP 2002-716928         20020409 <--
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     JP 2004534743        T     20041118    JP 2002-578991         20020409 <--
     US 20040126359       A1    20040701    US 2003-682230         20031009 <--
PRIORITY APPLN. INFO.:                      GB 2001-8872        A  20010409 <--
                                            GB 2001-8873        A  20010409 <--
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                                              WO 2002-GB1666      W  20020409
AB   Use of a modulator of a Hedgehog signaling pathway, or a modulator of a
     pathway which is a target of the Hedgehog signaling pathway in the preparation
     of a medicament for treatment of a disease or disorder associated with a
     T-cell mediated disease or disorder.
REFERENCE COUNT:         2     THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5   ANSWER 18 OF 21  USPATFULL on STN
ACCESSION NUMBER:        2002:336862  USPATFULL
TITLE:                   Therapeutic use
INVENTOR(S):             Lamb, Jonathan Robert, Edinburgh, UNITED KINGDOM
                         Hoyne, Gerard Francis, Midlothian, UNITED KINGDOM
                         Dallman, Margaret Jane, London, UNITED KINGDOM

                              NUMBER       KIND    DATE
                         ---------------- ------ --------
PATENT INFORMATION:      US 20020192216     A1   20021219
APPLICATION INFO.:       US 2001-13310      A1   20011207  (10)
RELATED APPLN. INFO.:    Continuation-in-part of Ser. No. WO 2000-GB2191, filed
                         on 5 Jun 2000, UNKNOWN

                                NUMBER        DATE
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PRIORITY INFORMATION:    GB 1999-13350      19990608                 <--
                         GB 1999-21953      19990916                 <--
DOCUMENT TYPE:           Utility
FILE SEGMENT:            APPLICATION
LEGAL REPRESENTATIVE:    FROMMER LAWRENCE & HAUG, 745 FIFTH AVENUE- 10TH FL.,
                         NEW YORK, NY, 10151
NUMBER OF CLAIMS:        48
EXEMPLARY CLAIM:         1
NUMBER OF DRAWINGS:      15 Drawing Page(s)
LINE COUNT:              1890
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB     Use of an inhibitor of a Hedgehog signalling pathway, or an inhibitor of
       a pathway which is a target of the Hedgehog signalling pathway in the
       preparation of a medicament for treatment of epithelial cell
       hyperplasia, fibrosis of tissue, inflammation, cancer or an immune
       disorder.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 19 OF 21  USPATFULL on STN
ACCESSION NUMBER:        2002:12550  USPATFULL
TITLE:                   INHIBITORS OF HEDGEHOG SIGNALING PATHWAYS, COMPOSITIONS
                         AND USES RELATED THERETO
INVENTOR(S):             BEACHY, PHILIP A., BALTIMORE, MD, UNITED STATES
                         COOPER, MICHAEL K., BALTIMORE, MD, UNITED STATES
                         PORTER, JEFFREY A., CAMBRIDGE, MA, UNITED STATES

                              NUMBER       KIND    DATE
                         ---------------- ------ --------
PATENT INFORMATION:      US 20020006931     A1   20020117
                         US 6432970         B2   20020813
APPLICATION INFO.:       US 1998-90622      A1   19980604  (9)

                                NUMBER        DATE
                         ------------------ --------
PRIORITY INFORMATION:    US 1998-81186P     19980409 (60)            <--
DOCUMENT TYPE:           Utility
FILE SEGMENT:            APPLICATION
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LEGAL REPRESENTATIVE:   ROPES & GRAY, ONE INTERNATIONAL PLACE, BOSTON, MA,
                        02110-2624
NUMBER OF CLAIMS:       22
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     7 Drawing Page(s)
LINE COUNT:             3884
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB       The present invention makes availables assays and reagents inhibiting
       paracrine and/or autocrine signals produced by a hedgehog protein
       comprising contacting a cell sensitive to the hedgehog protein with a
       steroidal alkaloid, or other small molecule, in a sufficient amount to
       reduce the sensitivity of the cell to the hedgehog protein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 20 OF 21  USPATFULL on STN
ACCESSION NUMBER:       2001:188704  USPATFULL
TITLE:                  Regulators of the hedgehog pathway, compositions and
                        uses related thereto
INVENTOR(S):            Dudek, Henryk, Wellesley, MA, United States
                        Ji, Benxiu, Sharon, MA, United States

                             NUMBER       KIND    DATE
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PATENT INFORMATION:     US 20010034337     A1   20011025
                        US 6686388         B2   20040203
APPLICATION INFO.:      US 2001-867311     A1   20010529  (9)
RELATED APPLN. INFO.:   Continuation of Ser. No. US 1999-417564, filed on 14
                        Oct 1999, PENDING

                               NUMBER        DATE
                        ------------------ --------
PRIORITY INFORMATION:   US 1999-115642P    19990113 (60)            <--
                        US 1999-119594P    19990210 (60)            <--
                        US 1999-142124P    19990702 (60)            <--
DOCUMENT TYPE:          Utility
FILE SEGMENT:           APPLICATION
LEGAL REPRESENTATIVE:   ROPES & GRAY, ONE INTERNATIONAL PLACE, BOSTON, MA,
                        02110-2624
NUMBER OF CLAIMS:       38
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     19 Drawing Page(s)
LINE COUNT:             3831
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB       The present invention makes available methods and reagents for
       inhibiting aberrant growth states resulting from hedgehog
       gain-of-function, ptc loss-of-function or smoothened gain-of-function
       comprising contacting a cell with a compound, such as a polypeptide or
       small molecule in an amount sufficient to control the aberrant growth
       state e.g., to agonize a normal ptc pathway or antagonize smoothened or
       hedgehog activity. The present invention further makes available methods
       and reagents for ameliorating to consequences of hedgehog
       loss-of-function, ptc gain-of-function, or smoothened loss-of-function
       comprising contacting a cell with a compound, such as a polypeptide or
       small molecule, in an amount sufficient to ameliorate the In certain
       embodiments, the subject compounds, e.g., a cAMP analog, adenylate
       cyclase agonist, or cAMP phosphodiesterase inhibitor, regulate cAMP
       levels, which in turn modulates activity of the hedgehog pathway.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5   ANSWER 21 OF 21  USPATFULL on STN
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ACCESSION NUMBER:       2001:158338  USPATFULL
TITLE:                  Regulators of the hedgehog pathway, compositions and
                        uses related thereto
INVENTOR(S):            Dudek, Henryk, Wellesley, MA, United States
                        Ji, Benxiu, Sharon, MA, United States
PATENT ASSIGNEE(S):     Curis, Inc., Cambridge, MA, United States (U.S.
                        corporation)

                             NUMBER       KIND    DATE
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PATENT INFORMATION:     US 6291516         B1   20010918
APPLICATION INFO.:      US 1999-417564          19991014  (9)

                               NUMBER        DATE
                        ------------------ --------
PRIORITY INFORMATION:   US 1999-115642P    19990113 (60)            <--
                        US 1999-119594P    19990210 (60)            <--
                        US 1999-142124P    19990702 (60)            <--
DOCUMENT TYPE:          Utility
FILE SEGMENT:           GRANTED
PRIMARY EXAMINER:       Krass, Frederick
LEGAL REPRESENTATIVE:   Vincent, Matthew P., Halstead, David P.Ropes & Gray
NUMBER OF CLAIMS:       16
EXEMPLARY CLAIM:        1
NUMBER OF DRAWINGS:     19 Drawing Figure(s); 19 Drawing Page(s)
LINE COUNT:             3730
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB       The present invention makes available methods and reagents for
       inhibiting aberrant growth states resulting from hedgehog
       gain-of-function, ptc loss-of-function or smoothened gain-of-function
       comprising contacting a cell with a compound, such as a polypeptide or
       small molecule in an amount sufficient to control the aberrant growth
       state, e.g., to agonize a normal ptc pathway or antagonize smoothened or
       hedgehog activity. The present invention further makes available methods
       and reagents for ameliorating the consequences of hedgehog
       loss-of-function, ptc gain-of-function, or smoothened loss-of-function
       comprising contacting a cell with a compound, such as a polypeptide or
       small molecule, in an amount sufficient to ameliorate the In certain
       embodiments, the subject compounds, e.g., a cAMP analog, adenylate
       cyclase agonist, or cAMP phosphodiesterase inhibitor, regulate cAMP
       levels, which in turn modulates activity of the hedgehog pathway.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.


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     (FILE 'HOME' ENTERED AT 11:13:13 ON 24 FEB 2009)

     FILE 'REGISTRY' ENTERED AT 11:13:31 ON 24 FEB 2009
                E "CYCLOPAMINE"/CN 25
L1            1 S E3

     FILE 'MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 11:14:09 ON 24 FEB
     2009
L2          450 S L1
L3           40 S L2 AND PSORIASIS
L4           22 S L3 AND (PRD<20010702 OR PD<20010702)
L5           21 DUP REM L4 (1 DUPLICATE REMOVED)

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---Logging off of STN---



=>
Executing the logoff script...


=> LOG Y

COST IN U.S. DOLLARS                                 SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                       69.13      77.23

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)           SINCE FILE      TOTAL
                                                          ENTRY    SESSION
CA SUBSCRIBER PRICE                                       -1.64      -1.64

STN INTERNATIONAL LOGOFF AT 11:18:08 ON 24 FEB 2009
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